Application No. 10/751,313 Docket No. P06703USO-6027 Reply to Office Action of January 25, 2005

This listing of claims will replace all prior versions, and listings, of claims in the application:

## Listing of Claims:

1. (original) A method of measuring the current within a PWM driver steps comprising:

providing a source current to the PWM driver creating a high side current and a low side current;

measuring the high side current with a first circuit;

transmitting the measurement from the first circuit to a second circuit via a first signal;

transmitting the second signal to a receiving device.

- 2. (original) The method of claim 1 wherein the receiving device is a monitoring device.
- 3. (original) The method of claim 1 wherein the receiving device is a control.
- 4. (original) The method of claim 1 wherein the first circuit consists of a plurality of resistors electrically connected to a circuit power source, a first diode electrically connected to the plurality of resistors; and a first transistor adapted to transmit an output signal.
- 5. (currently amended) The method of claim 4 wherein the second circuit consists of a plurality of resistors electrically connected to a circuit power source and the first transistor; a second diode electrically connected to the plurality of

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resistors of the second circuit and adapted to add the output signal of the first circuit to the output current of the second circuit to create—a the second signal.

- 6. (currently amended) The method of claim 1 wherein the PWM driver consists of a gate driving circuit electrically connected to a first transistor and a second transistor.
- 7. (currently amended) A circuit for measuring the current within a PWM driver comprising:
- a voltage source for the PWM driver electrically connected to a first circuit;
- said voltage source creating a high side current and a low side
  current within the circuit;
- mean in the first circuit to measure the current within the high side <u>current</u> of the circuit and to transmit a first signal containing this current measurement;
- a second circuit electrically connected to the first circuit via the first signal and adapted to measure the current within the low side current of the circuit;
- said second circuit being capable of adding the current from the first signal with the current measured by the second circuit to create a second signal; and
- a receiving means for receiving the second signal.
- 8. (original) The circuit of claim 7 wherein the receiving means is a monitoring device.
- 9. (original) The circuit of claim 8 wherein the receiving means is a control device.
- 10. (cancelled).